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PATENT

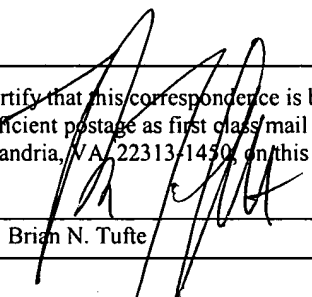
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Thomas R. Ohnstein et al. Confirmation No.:
Serial No.: 10/712,840 Examiner: Unknown
Filed: November 12, 2003 Group Art Unit: Unknown
For: ROBOTIC MEMBER
Docket No.: H0005156(1016.1140101)

TRANSMITTAL SHEET

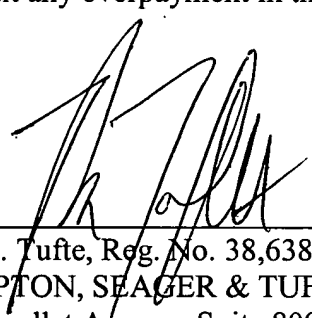
Mail Stop Amendment
Assistant Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

CERTIFICATE UNDER 37 C.F.R. 1.8: I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on this 12th day of May, 2004.

By: 
Brian N. Tufte

We are transmitting herewith the attached:

- [X] Information Disclosure Statement, Form PTO-1449 listing 29 references and 8 non-US patent references attached.
- [X] Please charge any deficiencies or credit any overpayment in the enclosed fees to Deposit Account No. 50-0413.



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INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

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Assistant Commissioner for Patents
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By: _____

Brigit N. Tufte

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F. R. §1.98(a)(2), a copy of each non-US patent document or other information listed on the enclosed Form 1449 is provided.

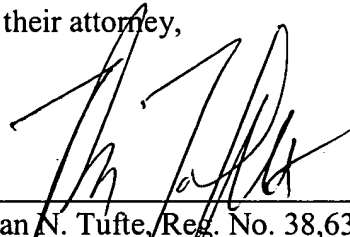
No representation is intended to be made hereby that any of the cited references establishes, by itself or in combination with other information, a prima facie case of unpatentability of any claim of the present case.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,

Thomas R. Ohnstein et al.

By their attorney,

A handwritten signature in black ink, appearing to read 'Brian N. Tufte', written over a horizontal line.

Dated:

May 12, 2004

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FORM PTO-1449		Atty. Docket No.: H0005156 (1016.1140101)	Serial No.: 10/712,840
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		Applicant: Thomas R. Ohnstein et al.	
		Filing Date: November 12, 2003	Group Art: Unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Filing Date If Appropriate
	2002/0039620	04/2002	Shahinpoor et al.	
	2002/0043950	04/2002	Yim et al.	
	2002/0152006	10/2002	Bennett III et al.	
	2003/0006669	01/2003	Pei et al.	
	5,029,101	07/1991	Fernandes	
	5,355,743	10/1994	Tesar	
	5,386,741	02/1995	Rennex	
	5,567,110	10/1996	Sutherland	
	5,662,587	09/1997	Grundfest et al.	
	5,901,939	05/1999	Cabuz et al.	
	6,106,245	08/2000	Cabuz	
	6,109,852	08/2000	Shahinpoor et al.	
	6,147,422	11/2000	Delson et al.	
	6,184,607	02/2001	Cabuz et al.	
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	6,461,337	10/2002	Minotti et al.	
	6,512,345	01/2003	Borenstein et al.	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	Gravagne, et al., "Kinematics for Constrained Continuum Robots Using Wavelet Decomposition, Robotics 2000, proceedings of the 4th International Conference and Exposition/Demonstration on Robotics for Challenging Situations and Environments, pp. 1-7, Feb 2000.
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FORM PTO-1449 Page 2 of 2	Atty. Docket No.: H0005156 (1016.1140101)	Serial No.: 10/712,840
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	November 12, 2003	Unknown

	Gravagne, et al. "Mine-Sniffing Robotic Snakes and Eels: Fantasy or Reality?," Proceedings of the 5th Intl. Symp. Technology and the Mine Problem, April 22-25, 2002 pp. 1-8.
	Gravagne, et al. "On the Kinematics of Remotely-Actuated Continuum Robots", Proceedings of the 2000 IEEE International Conference on Robotics and Automation, pp 2544-2550, April 2000.
	Hirose, et al. "Snakes and Strings: New Robotic Components for Rescue Operations," Experimental Robotics VIII, pp. 48-61, 2003.
	Horning, et al. "Polymer-Based MEMS Actuators for Biometrics," Neurotechnology for Biometric Robots, MIT Press, pp 173-185, 2002.
	Moon, B.R., et al. "Kinematics, Muscular Activity and Propulsion in Gopher Snakes," Journal of Experimental Biology, 201, pp 2669-2684, 1998.
	Paap, K.L., et al. "A Robot Snake to Inspect Broken Buildings," Proceedings of the 2000 IEEE/RSJ International Conference on Intelligent Robots and Systems, pp. 2079-2082, 2000.
	Sofge, D., et al., "Design, Implementation, and Cooperative Coevolution of an Autonomus/Teleoperated Control System for a Serpentine Robotic Manipulator," pp. 1-7, prior to filing date November 2003.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.